



Detailed Programme

Hydrocephalus 2024

Nagoya, Japan | Sep 13-16

The Sixteenth Meeting of the Hydrocephalus Society

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Hydrocephalus Society

International Society for Hydrocephalus
and Cerebrospinal Fluid Disorders

Detailed Programme

Friday, 13 September 2024

Pre Meeting Seminar

WINC AICHI - Small Hall 1

12:00 - 16:15	PreMeeting Educational Seminar Chairs: Mats Tullberg, Giorgio Palandri, Mitsuhiro Mase
12:00 - 12:30	Welcome and get together Opening Remark Mitsuhiro Mase
12:30 - 13:50	Debate session 1: Which name is better? Hakim disease, NPH, DESH?
12:30 - 12:50	Hakim Disease Laurence Watkins
12:50 - 13:10	Normal Pressure Hydrocephalus Uwe Kehler
13:10 - 13:30	DESH Etsuro Mori
13:30 - 13:50	Discussion, Roundtable
13:50 - 14:50	Debate session 2: Which is better? V-P/V-A shunt or L-P shunt for chronic hydrocephalus in adult (CHiA)
13:50 - 14:10	V-P/V-A shunt Mark Luciano
14:10 - 14:30	L-P Shunt Madoka Nakajima
14:30 - 14:50	Discussion, Roundtable
14:50 - 15:10	Coffee Break
15:10 - 16:00	Debate session 3: Which is better? V-P shunt or ETV for pediatric hydrocephalus
15:10 - 15:30	V-P shunt Richard Edwards
15:30 - 15:50	ETV Takuya Akai
15:50 - 16:00	Discussion, Roundtable
16:05 - 16:15	Closing Remarks Mats Tullberg

Saturday, 14 September 2024

Foyer - 6th Floor

07:00 - 08:00	Registrations
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Plenary Hall - 605

08:00 - 08:30	Opening of the Meeting Chairs: Carolyn Harris, Shigeki Yamada
08:00 - 08:15	Welcome Address Mats Tulberg - Hydrocephalus Society President
08:15 - 08:30	Welcome to Nagoya Mitushito Mase - Hydrocephalus 2024 President
08:30 - 09:00	Session 1: Hakim Lecture Chairs: Karin Kockum, Uwe Kehler
08:30 - 09:00	Classification and Management of Hydrocephalus; why are we still struggling? Marianne Juhler
09:00 - 10:00	Session 2: Young Investigators Awards I Chairs: Fernando Gomes Pinto, Sara Qvarlander, Tetsuo Hashiba
	Abstracts for this session are on pages 49 - 53
09:00 - 09:10	Investigating Hyperlipidemia and Coverage of Lipid Lowering Treatment in iNPH Sanna Andrea Eklund
09:10 - 09:20	Impact of Frailty on Gait Outcomes in Idiopathic Normal Pressure Hydrocephalus After Shunting Rahul Kumar
09:20 - 09:30	Shunt Surgery Response is Heavily Affected by Amyloid and Hyperphosphorylated Tau in Cortical Biopsy: Results from The Kuopio Idiopathic Normal Pressure Hydrocephalus Protocol Antti Luikku
09:30 - 09:40	Cerebrospinal Fluid Biomarkers of Neurodegeneration in Idiopathic Normal Pressure Hydrocephalus Heikki Lukkarinen
09:40 - 09:50	Postoperative Changes in Ventricular CSF Biomarkers with Correlation to Clinical Outcome in Idiopathic Normal Pressure Hydrocephalus Rebecca Grønning
09:50 - 10:00	Discussion

Parallel - Small Hall 1

09:00 - 10:00	Session 3: Adult Hydrocephalus (Symptoms) Chairs: Ignacio Jusue Torres, Hiroaki Kazui
	Abstracts for this session are on pages 54 - 59
09:00 - 09:10	Quantitative Gait Analysis Using Deep Learning Algorithms on Monocular Videos and Timed Up and Go Test in Idiopathic Normal Pressure Hydrocephalus Kyunghun Kang
09:10 - 09:20	Tracking Activity Patterns in Patients with Idiopathic Normal Pressure Hydrocephalus in the Diagnostic Process Rasmus Moldt Holmager
09:20 - 09:30	The Grasp Reflex in Patients with Idiopathic Normal Pressure Hydrocephalus Junyan Liu
09:30 - 09:40	Detecting Cognitive Dysfunction of iNPH by Texture Recognition Expressed Through Sound Symbolic Words Chihiro Kamohara
09:40 - 09:50	Effect of Cerebrospinal Fluid Removal on Standing Balance in Patients with Idiopathic Normal Pressure Hydrocephalus Sunee Bovonsunthonchai
09:50 - 10:00	Dynamic Balance Dysfunction and Falls as Early Signs of Idiopathic Normal Pressure Hydrocephalus Yasutaka Nikaido

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Parallel - Small Hall 2

09:00 - 10:00	Session 4: Technical Advances in Treatment and Diagnosis Chairs: Eric Schmidt, Marianne Juhler, Kaito Kawamura
	Abstracts for this session are on pages 60 - 65
09:00 - 09:10	Distal Ventriculoperitoneal Shunt Catheter Failure After Primary Shunt Insertion, What Can Go Wrong? A Single-Centre Retrospective Study on the Causes of Distal Catheter Malfunction Olivier Sluijters
09:10 - 09:20	New Bioreactor System to Test the Mechanisms that Underlay Catheter Malfunction Under Hydrocephalic Conditions Michael Muhonen
09:20 - 09:30	Characterization of Astrocytes on Topographical Surfaces to Reduce Shunt Failure Aaron Gonzales
09:30 - 09:40	Cerebrospinal Fluid Diversion for Vision-threatening Papilledema Secondary to Cerebral Venous Sinus Thrombosis Yousra Rasool
09:40 - 09:50	Transcallosal Microscopic Excision Of Posterior Third Ventricular Epidermoid And Ventriculostomy: A Unique Surgical Video And Literature Review Mayur Vinaykumar Kaku
09:50 - 10:00	A Phase IV Placebo-controlled Single Center Trial for Tirzepatide in Idiopathic Intracranial Hypertension Trial (TIIHT) Alexa Bramall

Exhibition Area

10:00 - 10:30	Coffee Break & Exhibition
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Plenary Hall - 605

10:30 - 11:40	Session 5: Young Investigators Awards II Chairs: Mats Tullberg, Eric Schmidt, Tomohiro Otani
	Abstracts for this session are on pages 66 - 71
10:30 - 10:40	The Resistance to CSF Outflow is Not Associated with Tightness Over the High Convexities in Patients Investigated for Normal Pressure Hydrocephalus Afroditi Lalou
10:40 - 10:50	"One Shunt Fits All?": The Difference Between the Various Antibiotic Impregnated Shunt Catheters Kanza Tariq
10:50 - 11:00	The 6-Minute Walk Test and the 3-Meter Backward Walk Test are Sensitive Outcome Measures in Idiopathic Normal Pressure Hydrocephalus Johanna Andersson
11:00 - 11:10	Long-Term Results of Surgical Treatment for Pediatric Hydrocephalus: A Comprehensive Systematic Review and Meta-Analysis Gabriel Semione
11:10 - 11:20	Apolipoprotein-L1 G1 Variant Causes Hydrocephalus in Mice and Humans Teruhiko Yoshida
11:20 - 11:30	Low Frequency of Pathogenic CWH43 Variants Among Finnish Idiopathic Normal Pressure Hydrocephalus Patients Joel Räsänen
11:30 - 11:40	Discussion

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Parallel - Small Hall 1

10:30 - 11:40	Session 6: Adult Hydrocephalus (Drainage Test) Chairs: Katarina Laurell, Samuel Jeffery, Sadahiro Nomura
	Abstracts for this session are on pages 73 - 78
10:30 - 10:40	The Efficacy of Gait and Balance Measures in Identifying Probable Idiopathic Normal Pressure Hydrocephalus following a High-Volume Cerebrospinal Fluid Tap Test Elizabeth Cray
10:40 - 10:50	Cerebrospinal Fluid Tap Test Did Not Predict Shunt Response in The Kuopio Idiopathic Normal Pressure Hydrocephalus Protocol Antti Luikku
10:50 - 11:00	Long-Term Gait Improvement Following CSF Tap Test in Idiopathic Normal Pressure Hydrocephalus: An Analysis of Clinical Outcomes Minju Kim

Detailed Programme

11:00 - 11:10	Does Subsequent External Lumbar Drainage Add Valuable Clinical Information in Case of a Negative Short-term Tap Test? Johan Eriksson De-Ryst
11:10 - 11:20	Correlation Between GLCM-based Texture Features of the Lateral Pterygoid Muscle and Cognitive Function in Patients with Idiopathic Normal Pressure Hydrocephalus: A Preliminary Report Shin Heon Lee
11:20 - 11:30	Normal Pressure Hydrocephalus (NPH), external Lumbar Drainage and (eLD) and Predictors of Shunting Success Alexa Bramall
11:30 - 11:40	Discussion

Parallel - Small Hall 2

10:30 - 11:40	Session 7: Oral Flash Presentations of e-Posters (Movement Disorders and Hydrocephalus & Imaging) Chairs: Kyunghun Kang Toshiaki Taoka, Jeff Gunter
	Abstracts for this session are on pages 237- 249
10:30 - 10:35	Evaluating the Efficacy of Blinded Gait Assessments to determine Changes After Shunt Surgery in Patients with iNPH – Preliminary Results Maria Ekblom
10:35 - 10:40	Understanding the Relationship Between Cognitive Impairment and Gait Characteristics in iNPH Liis Uiga
10:40 - 10:45	The Effect of Coexisting Progressive Supranuclear Palsy on Post-Shunt Clinical Course of Idiopathic Normal Pressure Hydrocephalus Hirokazu Uchigami
10:45 - 10:50	Diagnostic Accuracy of MR-CSF Flow Study in Assessment of Normal Pressure Hydrocephalus Nirmita Gummadi (V)
10:50 - 10:55	Novel Connectomic Biomarkers for Identifying Possible Idiopathic Normal Pressure Hydrocephalus Patients with High Disproportionately Enlarged Subarachnoid Space Hydrocephalus (DESH) Score Ko-Ting Chen
10:55 - 11:00	iNPH-ResViT: A fully Automated and Explainable Deep Learning Pipeline as a Decision Support Tool for the Diagnosis of iNPH on MRI Dimitrios Toumpanakis
11:00 - 11:05	Changes in Callosal Angle and Evans Index Following Shunt Surgery in Patients with Idiopathic Normal Pressure Hydrocephalus Rodolfo Reis
11:05 - 11:10	Retrospective Analysis of Long-term Outcome for CSF Shunted Probable iNPH Patients Whose Dat Scan Showed DAT Disorder Tetsuo Hashiba

11:10 - 11:15	Lateral Ventricular Volume Predicts Unfavourable Outcome and Earlier Death in Elderly Who Fall David Fällmar
11:15 - 11:20	Magnetic Resonance Imaging Texture Analysis (MRTA) in Patients Affected by Probable Idiopathic Normal Pressure Hydrocephalus Daniele Bagatto
11:20 - 11:25	Accuracy and Feasibility of Cerebral Venous Blood Flow Quantifications Using High Velocity Encoding 4D Flow MRI Arvid Westlund
11:25 - 11:30	Quantification of Regional Neural Tissue Dynamics in Type I Chiari Malformation Mark Luciano
11:30 - 11:35	Near-infrared Fluorescence Indocyanine Green Mice Cisternography for Normal and Hydrocephalus Mice Yasushi Shibata
11:35 - 11:40	Discussion

Plenary Hall - 605

11:40 - 12:40	Hydrocephalus Society Annual General Meeting
12:40 - 13:50	Industry Sponsored Lunch Seminar
13:50 - 15:20	Session 8: Pediatric Hydrocephalus Chairs: Richard Edwards, Cristopher Roberts, Young-Soon Park
	Abstracts for this session are on pages 79 - 84
13:50 - 14:10	Keynote: Psychological and Economic impact of pediatric hydrocephalus on care givers Sylvia Shitsama
14:10 - 14:20	Risk and Protective Factors for Congenital Hydrocephalus in Live Births within the Brazilian Amazon Rainforest Kim Wouters
14:20 - 14:30	Accumulation of Reactive Oxidative Species Leads to the Development of Acquired Hydrocephalus Celine Thao-Quyen Tran
14:30 - 14:40	Pathological Choroid Plexus Proliferation May Underlie the Etiology of Hydrocephalus After Traumatic and Hemorrhagic Conditions Gio Jison
14:40 - 14:50	Impact of Ventricular Dilation and Ventricular Catheter Placement on Obstructive Catheter Failure in Pediatric Hydrocephalus Patients: Insights from a Multicenter Shunt Biobank Study Prashant Hariharan
14:50 - 15:00	Hindbrain Herniation and Hydrocephalus in Myelomeningocele William Whitehead
15:00 - 15:10	A Comprehensive Analysis of the Chronic Burden of Hydrocephalus in a Paediatric Population; Revisions, False Alarms, and Scans Sang Ho Kim
15:10 - 15:20	Discussion

Parallel Hall - Small Hall 1

13:50 - 15:30	Session 9: Adult Hydrocephalus (Surgery) Chairs: Giorgio Palandri, Benjamin Elder, Masakazu Miyajima
	Abstracts for this session are on pages 85- 94
13:50 - 14:00	Association of Gait and Cognition After Surgery in Patients with Idiopathic Normal Pressure Hydrocephalus Masatsune Ishikawa
14:00 - 14:10	Clinical Long-term Outcome in Idiopathic Normal Pressure Hydrocephalus (iNPH) After CSF Shunt Surgery: Is Long-term Improvement Common or Exceptional? Julia Shawarba
14:10 - 14:20	Ventriculoatrial Shunt with Intra-operative Venography, A Non-inferior Alternative to the Ventriculoperitoneal Shunt: Case Series & Technique Description Ignacio Jusue Torres
14:20 - 14:30	A Randomized Double-blinded Study of Early Volumetric Changes After Shunt Surgery in iNPH; is Certas Plus “Virtual off” Really off? Rafael Holmgren
14:30 - 14:40	Analysis of Factors Affecting Ventriculoperitoneal Shunting - Determinants and Outcomes: A Ten-year Retrospective Single-centre Study Venkata Santosh Rendu
14:40 - 14:50	Is Less More? Management of Late Clinical Deterioration in Shunted NPH-Patients Uwe Kehler
14:50 - 15:00	The Role of Comorbidities, Antiplatelet and Anticoagulant Therapy in NPH Post-Operative Complications on a Long Term Follow up Niccolò Neri
15:00 - 15:10	Predictors of Shunt Revision in Idiopathic Normal Pressure Hydrocephalus Rahul Kumar
15:10 - 15:20	Shunt Surgery and Complications, the Pro-Hydro Experience Alessandro Pirina
15:20 - 15:30	Characteristics of Patients with Idiopathic Normal Pressure Hydrocephalus for Whom Neurosurgeons Hesitate to Perform Shunt Surgery: A Nationwide Hospital-Based Survey in Japan Ryo Kawai

Parallel Hall - Small Hall 2

13:50 - 15:30	Session 10: Oral Flash Presentations of e-Posters Chairs: Sevil Yasar, Teruo Kimura, Ville Leinonen
	Abstracts for this session are on pages 250 - 268
13:50 - 13:55	Expert Opinion on Procedures for Conducting CSF Tap Tests for iNPH in Japan Hideki Kanemoto
13:55 - 14:00	Myelin Basic Protein in the Cerebrospinal Fluid of Patients with Idiopathic Normal Pressure Hydrocephalus Yasushi Shibata
14:00 - 14:05	The Influence of Cerebrospinal Fluid Protein Concentration and Volumetric Bulk Flow Rate on Polydimethylsiloxane Shunts used to Treat Hydrocephalus Amogh Govind
14:05 - 14:10	Starting Off Right: Optimal Initial Shunt Valve Setting for Hakim's Disease (iNPH) Patients Shakran Mahmood
14:10 - 14:15	Analysis of Long-Term Care Insurance Service Utilization pattern and grade according to clinical factors including the severity of Dementia Jun Hong Lee
14:15 - 14:20	Lumbo-Atrial Shunt Revision: A Case Report with Histological Insights Michael Le
14:20 - 14:25	Cerebrospinal Fluid Dynamics in an Adult with Benign External Hydrocephalus Presented with Spontaneous CSF Rhinorrhea Dimitris Kombogiorgas
14:25 - 14:30	The Utility of Instrumental, Clinical, and Radiological Methods of Diagnosis in Idiopathic Normal Pressure Hydrocephalus: A Systematic Review Nour B. Saleh
14:30 - 14:35	DMSO-Mediated Dissolution of Liquid Embolic Agents associated with the development of Hydrocephalus: Systematic Review Sora Sato
14:35 - 14:40	The Clock Drawing Test Findings in Patients with iNPH Koichi Miyazaki
14:40 - 14:45	Practical Aspect of Ventriculo-atrial Shunt: Surgical Technique, Operation Time, and Duration of Hospital Stay Kiyoshi Takagi
14:45 - 14:50	Ventriculoperitoneal Shunting Obstruction: a Multicentre Clinical Research for Cerebrospinal Fluid Parameters and its Prediction role Hao Xu
14:50 - 14:55	Growing up with Differential Valves Does Not Cope with Anti-Siphon Devices in Young Adults – A Case Series with Pathophysiological Considerations Stefanie Kaestner
14:55 - 15:00	Combined Endoscopic Third Ventriculostomy and Biopsy of a Rare Case of Papillary Tumor of the Pineal Region: A Case Report Raymark Santiago

Detailed Programme

15:00 - 15:05	Electric Circuit Analog of Intracranial Pressure Dynamics – Direct Simulation in MATLAB/Simulink Leszek Herbowski
15:05 - 15:10	Outcomes of Hydrocephalus Ventriculoperitoneal Shunt Surgery at a Rural Hospital Dan Farahmand
15:10 - 15:15	Pathological and Neuronal Evaluation in Human Brain Biopsies From Patients with Idiopathic Normal Pressure Hydrocephalus, iNPH Lisa Arvidsson
15:15 - 15:20	Understanding Hydrocephalus in Subarachnoid Haemorrhage Lucia Darie
15:20 - 15:25	Investigating Shunt Catheter Obstruction: A Comparative Flow Study Between Modified and Commercial Amirhossein Shahriari
15:25 - 15:30	Discussion

Exhibition Area

15:30 -16:15	Coffee Break & Exhibition
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Plenary Hall - 605

16:15 - 17:40	Session 11: Neuroimaging Chairs: Karin Kockum, Olivier Baledent, Kazunari Ishii
	Abstracts for this session are on pages 95 - 98
16:15 - 16:35	Keynote: Cerebrospinal Fluids Dynamics in Normal and Hydrocephalus Brain Shinya Yamada
16:35 - 16:55	Keynote: Exploring Next-Generation Hydrocephalus Imaging: Modeling Cerebrospinal Fluid Dynamics and Artificial Intelligence Shigeki Yamada
16:55 - 17:05	“Controls-in-Common”: Baseline Comparisons Between Cohorts of Normal Pressure Hydrocephalus vs. Local-to-Global Healthy Norms Using the Periodic Table of DTI Elements Nicole Keong
17:05 - 17:15	The Customized Tissue Probability Map and Gray and White Matter Templates Can Improve the Accuracy of Brain Segmentation in Patients With Idiopathic Normal Pressure Hydrocephalus Shigenori Kanno
17:15 - 17:25	Reliability of the iNPH Radscale in a Multicentre Clinical Setting Karin Kockum
17:25 - 17:35	Aqueduct Pressure Gradient Decrease in Hakim Hydrocephalus Patients Olivier Baledent
17:35 - 17:40	Discussion

Parallel - Small Hall 1

16:15 - 17:10	Session 12: Congenital and Pediatric Hydrocephalus Chairs: Sylvia Shitsama, Michael Muhonen, Atsuko Harada
	Abstracts for this session are on pages 99 - 103
16:15 - 16:25	The Efficacy of Ventriculosubgaleal Shunt in Managing Neonatal Hydrocephalus due to Intraventricular Hemorrhage: A Systematic Review and Meta-Analysis Stefeson Junior
16:25 - 16:35	Looking to the Future: Implementation of Flow MRI in the Management of Hydrocephalia in Ivory Coast Pediatric Population Vakaramoko Mohamed Kone
16:35 - 16:45	Unveiling the Transition: Exploring Mechanisms in the Evolution from External to Internal Hydrocephalus in Children - Insights from 21 Cases Wu Qiang Che
16:45 - 16:55	Post-Hemorrhagic Hydrocephalus (PHH) in Newborns: Assessing Stem Cells Role in Intraventricular Hemorrhage (IVH) as a Way of Outlining Strategies to Minimize Morbidity in Preterm Patients Raphael Bertani
16:55 - 17:05	Rare Incident of Migrating Spinal Arachnoid Cyst: Case Report of a Female Patient Irakli Kazaishvili
17:05 - 17:10	Discussion

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Parallel - Small Hall 2

16:15 - 17:40	Session 13: Oral Flash Presentations of e-Posters (Adult Hydrocephalus) Chairs: Ryo Oike, Eric Schmidt, Samuel Jeffery
	Abstracts for this session are on pages 269 - 284
16:15 - 16:20	Association Between Homocysteine, Frailty and Biomechanical Response of the CNS in NPH-suspected Patients Eric Schmidt
16:20 - 16:25	Initiation of a Global Collaborative Research between South Korea, Japan, and Thailand for the Development of a Comprehensive Hakim's Disease Management System Based on Multimodal Factors Including Voice, Gaze, Hearing, Gait, and Balance Ki-Su Park
16:25 - 16:30	Risk Factors for Idiopathic Normal Pressure Hydrocephalus (iNPH): A Study from the Shizuoka National Health Insurance (Kokuho) Database Nagato Kuriyama
16:30 - 16:35	Natural History of Syringomyelia: To Treat or Not to Treat? Linda D'antona
16:35 - 16:40	Almost Two Decades of Normal Pressure Hydrocephalus Referrals: Trends of Clinical and Imaging Characteristics Linda D'antona

Detailed Programme

16:40 - 16:45	Prevalence of Hydrocephalus and its Relationship With Cervical Spinal Canal Stenosis Thanaporn Jewrasumnuay
16:45 - 16:50	Identifying Markers Predicting Shunting Efficacy in Idiopathic Normal Pressure Hydrocephalus Adeline Nolin
16:50 - 16:55	Development of Robust Next-generation Double Image-Guided Lumboperitoneal Shunt Technique for Normal Pressure Hydrocephalus Yoshinaga Kajimoto
16:55 - 17:00	Ventriculoperitoneal Shunt Insertion In Palliative Patients With Hydrocephalus Secondary to Cerebral Metastasis: A Single-Centre Case Series Lucia Darie
17:00 - 17:05	Colloid Cysts Natural History and Patient Subgroup Analysis Lucia Darie
17:05 - 17:10	Programmable Valve Adjustment With A Non-Invasive Device In An Outpatient: Case Report Raphael Bertani
17:10 - 17:15	The Quebec (Canada) Study on Idiopathic Normal Pressure Hydrocephalus: Clinical Presentation of Patients and Impact of Sociodemographic Factors on Cognitive and Gait/Balance Performance Florence Belzile
17:15 - 17:20	Enhancing Surgical Decision-Making in Idiopathic Normal Pressure Hydrocephalus: A Predicting Modeling Approach Florence Belzile
17:20 - 17:25	Utility of Patient Reported Outcome Measures in Assessing Improvement in Health Following ventriculoperitoneal shunt insertion Elizabeth Cray
17:25 - 17:30	The impact of an advanced clinical practitioner in improving and developing the NPH service Elizabeth Cray
17:30 - 17:35	Successful endoscopic third ventriculostomy for a patient with 40 years of ventriculoperitoneal shunt dependency: a case report Daisuke Kita
17:35 - 17:40	Discussion

Sunday, 15 September 2024

Plenary Hall - 605

07:30 - 08:30	Industry Sponsored Breakfast Seminar
08:30 - 09:20	Session 14: Young Investigators Awards III Chairs: Benjamin Elder, Aaron Gonzalez,Kaito Kawamura
	Abstracts for this session are on pages 104 - 108
08:30 - 08:40	Beyond the Volume in Prediction of Idiopathic Normal Pressure Hydrocephalus Patients' Shunt Surgery Response Andrius Penkauskas
08:40 - 08:50	The Importance of Statistical Power in Neurosurgery: Analyzing the Statistical Power of 21 Hydrocephalus Randomized Clinical Trials in a Post-Hoc Fashion Leonardo B Oliveira
08:50 - 09:00	Preventing distal catheter migration and subcutaneous coiling by tunnelling deep to the anterior rectus sheath: a retrospective study of a surgical technique for tunnelling a ventriculo-peritoneal shunt Olivier Sluijters
09:00 - 09:10	Computational investigation on cerebrospinal fluid flow mixing states in aqueduct of patients with Hakim's disease Shusaku Maeda
09:10 - 09:20	Endoscopic findings and clunical outcome of ETV in infants under six months in Tanzania Consolata Sayo

Parallel - Small Hall 1

08:30 - 09:40	Session 15: Modern Hardware and Software in Hydrocephalus Chairs: Carolyn Harris, Anders Eklund, Yasouaki Inoue
	Abstracts for this session are on pages 109 - 115
08:30 - 08:40	First use study of wireless, wearable, continuous thermal shunt flow monitors at home by ten shunted hydrocephalus subjects R. Chad Webb
08:40 - 08:50	Pioneering the biomechanical efficacy and safety of the M.BLUE® device in treating adult post-hemorrhagic hydrocephalus following aneurysmal rupture: An in-depth study Quentin Berton
08:50 - 09:00	Combined control of ICP and assessment of CSF dynamics with active shunt systems Fabian Flürenbrock
09:00 - 09:10	The effects of architectural modifications on resistance to fluid flow in ventricular catheters Rajesh Kumar Madhavan

Detailed Programme

09:10 - 09:20	Zwitterionic-Coating for Mitigating Cellular Occlusion on a Ventricular Catheter for the Treatment of Hydrocephalus Seunghyun Lee
09:20 - 09:30	Long-term clinical results of the Flow ventricular catheter for hydrocephalus: brief report Marcelo Galarza
09:30 - 09:40	Maintaining Momentum: Sustaining Symptom Improvement in Hakim's Disease (iNPH) Patients through Ventriculoperitoneal Shunt Valve Adjustments Shakran Mahmood

Parallel - Small Hall 2

08:30 - 09:40	Session 16: Oral Flash Presentations of e-Posters (Adult Hydrocephalus) Chairs: Rahul Kumar, Chihiro Akiba
	Abstracts for this session are on pages 285 - 296
08:30 - 08:35	By referring to preoperative 3D MRI, inter-rater reliability of callosal angle can be obtained even with 5 mm thick CT Hisayuki Murai
08:35 - 08:40	Pupillary responses to the glare illusion in patients with normal-pressure hydrocephalus Ai Kawamura
08:40 - 08:45	Patients With Normal Pressure Hydrocephalus Suffer From Chronic Cerebral Ischaemia Due To Venous Compression Masahiro Kameda
08:45 - 08:50	Investigating the Impact of Macrophage Infiltration on Secondary Chronic Hydrocephalus in Vestibular Schwannoma Seiji Yamada
08:50 - 08:55	Characteristics of Postural Instability in Idiopathic Normal Pressure Hydrocephalus Eunhee Park
08:55 - 09:00	Insight on the burden of hydrocephalus in a Latin American upper-middle income country: a nationwide study in Colombia Maria Paula Vargas
09:00 - 09:05	A case of idiopathic normal pressure hydrocephalus on long-term observational follow-up due to generalized cerebral sulcus enlargement with poor ventricular enlargement and atrophy-like findings Yasushi Shibata
09:05 - 09:10	Impact of Different Diagnostic Techniques in the Management of Hakim Disease Cyrille Capel
09:10 - 09:15	A case of acute ischemic stroke due to untreated normal pressure hydrocephalus improved by shunting Yuhei Kuriyama
09:15 - 09:20	Combining endoscopic third ventriculostomy and tumor biopsy did not increase the risk of leptomeningeal tumor dissemination for intraventricular and paraventricular tumors with obstructive hydrocephalus Masahiro Oishi

09:20 - 09:25	Strategies for neuroendoscopic evacuation of hypertensive thalamic hemorrhage to avoid acute and chronic hydrocephalus Sadahiro Nomura
09:25 - 09:30	Endoscopic Surgery in Thalamic Hemorrhage with IVH Provides Prevention Secondary Hydrocephalus and Cost-Effectiveness Michiko Yokosawa
09:30 - 09:40	Discussion

Plenary Hall - 605

09:20 - 10:15	Session 17: Advances in Geriatric Hydrocephalus Chairs: Uwe Kehler, Hiroaki Kazui, Laurence Watkins
	Abstract for this session on page 116
09:20 - 09:40	Keynote: Advancing Geriatric Hydrocephalus Eric Schmidt
09:40 - 10:00	Keynote: Considering iNPH in the New Era of Dementia ~Society, Policy, and Institution~ Shigeki Yamada
10:00 - 10:15	The Dead Canary in the Coal Mine Daniele Rigamonti

Parallel - Small Hall 1

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09:40 - 10:15	Session 18: Technical Advances in Treatment and Diagnosis Chairs: Benjamin Elder, Mark Luciano, Yasuhiko Hayashi
	Abstracts for this session are on pages 117-119
09:40 - 09:50	AI-based detection of Certas shunt valve settings in CT scans Amir El Rahal
09:50 - 10:00	Bio-inspired self-cleaning catheter material and design Haritosh Patel
10:00 - 10:10	In-vivo measurement and analysis of intraventricular bioimpedance Fabian Flürenbrock
10:10 - 10:15	Discussion

Parallel - Small Hall 2

09:40 - 10:15	Session 19: Oral Flash Presentations of e-Posters Chairs: Sara Qvarlander, Fernando Gomes Pinto, Masahiro Kameda
	Abstracts for this session are on pages 297-303
09:40 - 09:45	Ethnic, Racial and Socioeconomic Disparities in the Management and Outcomes of Hydrocephalus: A Scoping Review of the Literature Leonardo B Oliveira

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09:45 - 09:50	Prenatal versus Postnatal Surgical Management for Myelomeningocele: A Systematic Review and Comparative Meta-Analysis Gabriel Semione
09:50 - 09:55	Impact of Prenatal Care and Zika Virus on Congenital Hydrocephalus Prevalence in the Brazilian Amazon Kim Wouters
09:55 - 10:00	Ventriculoperitoneal Shunt for the treatment of hydrocephalus after posterior fossa tumors: A Systematic Review and Meta-Analysis Stefeson Junior
10:00 - 10:05	Comparison of non-invasive ICP waveforms analysis between hydrocephalus patients who are asymptomatic and patients presenting with shunt dysfunction Raphael Bertani
10:05 - 10:10	Non-invasive ICP waveform of patients with shunts and no symptoms Raphael Bertani
10:10 - 10:15	Comparing non-invasive ICP waveform analysis in shunt dysfunction patients pre and post-operatively Raphael Bertani

Plenary Hall - 605

10:15 - 10:45	Session 20: Computational Methods in CSF Dynamics Chairs: Shinya Yamada, Carolyn Harris, Cristopher Roberts
	Abstract for this session are on page 120
10:15 - 10:30	Keynote:Analyzing Cerebrospinal Fluid Dynamics in Ventricular Catheters for Pediatric Hydrocephalus Cristopher Roberts
10:30 - 10:45	Keynote: Personalized computational modeling on ventricular cerebrospinal fluid flow dynamics Tomohiro Otani

Parallel - Small Hall 1

10:15 - 10:45	Session 21: Neuroimaging Chairs: Jeff Gunter, Nicole Keong, Shigenori Kanno
	Abstracts for this session are on pages 121-123
10:15 - 10:25	Quantitative Measurement of CSF and Brain volumes in Patients with Spontaneous Intracranial Hypotension using a Convolutional Neural Network Amir El-Rahal
10:25 - 10:35	Quantification of Brain and CSF 3D Center of Mass Shift in Astronauts and Ground-based Controls Michael Williams
10:35 - 10:45	Exploring the Relationship Between Global Gray Matter and the Idiopathic Normal Pressure Hydrocephalus Triad Hongliang Li

Parallel - Small Hall 2

10:15 - 10:45	Session 22: Adult Hydrocephalus (Secondary) Chairs: Ahmed Toma, Sadahiro Nomura, Mark Luciano
	Abstracts for this session are on pages 124-126
10:15 - 10:25	Clinical impact of craniectomy on shunt-dependent hydrocephalus after intracerebral hemorrhage: A propensity score-matched analysis Seok Hyun Oh
10:25 - 10:35	Preventive effect of intermittent cerebrospinal fluid drainage for secondary chronic hydrocephalus after aneurysmal subarachnoid hemorrhage Tomoyasu Yamanaka
10:35 - 10:45	Optimizing EVD Management in Aneurysmal Subarachnoid Hemorrhage: Long-term Placement Strategy and Implications for Shunting Surgery Jui-To Wang

Exhibition Area

10:45 - 11:20	Coffee Break & Exhibition
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Plenary Hall - 605

11:20 - 12:40	Session 23: Special Session: Neurofluids Chairs: Mitsuhiro Mase, Per Kristian Eide, Toshiaki Taoka
11:20 - 11:40	Keynote: Imaging glymphatic function in humans Per Kristian Eide
11:40 - 12:00	Keynote: Interstitial fluid dynamics of the brain and Diffusion Tensor Image analysis Along the Perivascular Space (DTI-ALPS) Toshiaki Taoka
12:00 - 12:20	Keynote: Movement and turnover of water molecules in brain and CSF spaces evaluated by H215O Dynamic PET Mitsuhiro Mase
12:20 - 12:40	Discussion

Parallel - Small Hall 1

11:20 - 12:40	Session 24: Intracranial Pressure Chairs: Anders Eklund, Laurence Watkins, Hisayuki Murai
	Abstracts for this session are on pages 127-134
11:20 - 11:30	Mean baseline ICP value measured during lumbar infusion test: discrepancy between theory and practice Olivier Baledent
11:30 - 11:40	Reversible cognitive dysfunction in spontaneous intracranial hypotension (SIH) – a spinal dementia Katharina Wolf

Detailed Programme

11:40 - 11:50	Non-invasive fundoscopy as a tool to estimate intracranial pressure: An animal model Niclas Lynge Eriksen
11:50 - 12:00	Can we reduce clinic times for patients with M.scios? Eleanor Moncur
12:00 - 12:10	The role of spontaneous retinal venous pulsations in the post-operative follow-up of patients with intracranial hypertension Linda D'antona
12:10 - 12:20	Changes in telemetric intracranial pressure after implantation of shunt for Idiopathic Intracranial Hypertension Sheikh M.B. Momin
12:20 - 12:30	Elevated systemic venous pressure in pediatric IIH Marianne Juhler
12:30 - 12:40	Headache severity is related to increased CSF dynamics in spontaneous intracranial hypotension (SIH) Katharina Wolf

Parallel - Small Hall 2

11:20 - 12:40	Session 25: Adult Hydrocephalus Chairs: Ville Leinonen, Katarina Laurell, Masakazu Miyajima
	Abstracts for this session are on pages 135-142
11:20 - 11:30	Training the local teams: a review of a new service training local physicians to assess, measure ICP & adjust shunts in remote areas Simon Thompson
11:30 - 11:40	A prospective study evaluating the risk of glaucoma after ventriculoperitoneal shunts for patients with normal pressure hydrocephalus Rahul Kumar
11:40 - 11:50	Evaluating longitudinal changes of objective gait parameters following shunt placement in patients with idiopathic normal pressure hydrocephalus Rahul Kumar
11:50 - 12:00	Idiopathic Normal Pressure Hydrocephalus: pre- and postoperative performance in 6-minute walk test and 3-meter backward walk test Lena Kollen
12:00 - 12:10	Normal pressure hydrocephalus as a reversible component of multifactorial dementia: assessment of post-surgical improvement Fernando Hakim
12:10 - 12:20	Neuropsychological Profile in Adults with Asymptomatic, Untreated Congenital Hydrocephalus Nickolas Dasher
12:20 - 12:30	Comparison of Decline In Different Cognitive Domain In Patients With Normal Pressure Hydrocephalus Adela Bubenikova
12:30 - 12:40	Ventricular endoscopy 2D video can be used for 3D reconstruction of anatomy – a novel technique for neuro-navigation Ryan Lee

Plenary Hall - 605

12:40 - 14:00	Industry Sponsored Lunch Seminar
14:00 - 15:50	Session 26: Adult Hydrocephalus (CSF Biomarkers) Chairs: Mats Tullberg, Namiko Nishida, Ville Leinonen
	Abstracts for this session are on pages 143-148
14:00 - 14:20	Keynote: Diagnosis and prognosis of adult hydrocephalus-the role of biomarkers Katarina Laurell
14:20 - 14:40	Keynote: Use of CSF Biomarkers for Postoperative Management of Shunts Madoka Nakajima
14:40 - 14:50	Idiopathic normal pressure hydrocephalus: associations between CSF biomarkers, clinical symptoms, and postoperative outcome Mats Tullberg
14:50 - 15:00	Lipocalin-type prostaglandin D synthase: a glymphopathy marker in idiopathic normal pressure hydrocephalus Namiko Nishida
15:00 - 15:10	Analysis of Amyloid Oligomer Concentrations in CSF and Plasma Before and After CSF Shunting Chihiro Akiba
15:10 - 15:20	Early results of CSF and plasma cytokines and chemokines 3 and 12 months after shunting in idiopathic normal pressure hydrocephalus; a prospective controlled study Rafael Holmgren
15:20 - 15:30	APOE levels are significantly reduced in post-traumatic hydrocephalus Gianna Fote
15:30 - 15:50	Advice to our colleagues: family practitioners and geriatricians Daniele Rigamonti

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Parallel - Small Hall 1

14:00 - 15:50	Session 27: Physiology of CSF Circulation & Neurofluids Chairs: Olivier Baledent, Shinya Yamada, Per Kristian Eide
	Abstracts for this session are on pages 149-158
14:00 - 14:10	The impact of correlating symptoms to cerebrospinal fluid dynamics: a Machine Learning-led exploration of infusion study metrics Nicole Keong
14:10 - 14:20	Intracranial pressure in prone position Eleanor Moncur
14:20 - 14:30	Non-invasive Intracranial Pressure Waveform of Patients with Idiopathic Intracranial Hypertension Raphael Bertani
14:30 - 14:40	Intracranial baroreflex. A review Eric Schmidt

Detailed Programme

14:40 - 14:50	Neurofluid flow dynamics by particle injection stud Takuya Akai
14:50 - 15:00	Method for measurement of glymphatic flow rate in INPH Anders Eklund
15:00 - 15:10	Insights neurofluid dynamics in Chiari syndromes? Cyrille Capel
15:10 - 15:20	Non-invasive MRI of Blood-CSF-Barrier Function: A Novel Tool for Assessment of Pharmacological Management of Intracranial Pressure and in an Experimental Model of Hydrocephalus Shereen Nizari
15:20 - 15:30	Estimating osmotic pressure of the CSF in INPH patients using T2 analysis Koichi Oshio
15:30 - 15:40	A thermodynamic model of obstructive hydrocephalus Michael Egnor
15:40 - 15:50	Discussion

Parallel - Small Hall 2

14:00 - 15:50	Session 28: Adult hydrocephalus Chairs: Madoka Nakajima, Ki-Su Park, Mark Luciano
	Abstracts for this session are on pages 159-169
14:00 - 14:10	MRI markers of idiopathic normal pressure hydrocephalus in a population study with 791 participants: exploring reference values and associations Clara Constantinescu
14:10 - 14:20	Morphological and clinical changes after shunt Serge Metanbou
14:20 - 14:30	Impact of Third Ventricle Morphology on Long-Term Memory in LOVA Hydrocephalus Francesco Tuniz
14:30 - 14:40	Can the degree of Disproportionately Enlarged Subarachnoid-space Hydrocephalus predict improvement? Sofia Möckelind
14:40 - 14:50	Intracranial volume change studied by PC-MRI in hydrocephalus patients and healthy volunteers Olivier Baledent
14:50 - 15:00	The relationship between objectively assessed and subjectively experienced effect of shunt surgery in idiopathic normal pressure hydrocephalus Sanna Pääaho
15:00 - 15:10	Manual and automatic quantification of ventricular volume before and after shunt surgery in idiopathic normal pressure hydrocephalus David Fallmar
15:10 - 15:20	3T MRI Characteristics and Gait Assessment Scales in INPH Patients: Insights into Pathophysiology Alessandro Pirina

15:20 - 15:30	Adult normal pressure hydrocephalus, Normal tension glaucoma and neurodegeneration. Are there any additional evidence based treatment options? Edith Rom
15:30 - 15:40	Quadruple misfolded proteinopathy combined with normal pressure hydrocephalus: an autopsy case report Yixuan Huang
15:40 - 15:50	Do Differential Opening Pressures Add-Up? Ryan Lee

Exhibition Area

15:50 - 16:20	Coffee Break & Exhibition
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Plenary Hall - 605

16:20 - 17:00	Session 29: Special Session on Smart Devices Chairs: Shigeki Yamada, Laurence Watkins, Ignacio Jusue Torres
	Abstracts for this session are on pages 170 - 172
16:20 - 16:30	Keynote: Distinguishing Pathological Gait by Artificial Intelligence and Fluctuation Analysis: Research with Motion Capture Application TDPT-GT Considering the Gait of Hakim's Disease (iNPH) Chifumi Iseki
16:30 - 16:40	Assessment of Pathological Gait: Arm Swings and Stride Length with a Deep Learning Smartphone App Atsuhito Taishaku
16:40 - 16:50	Predicting Good Outcomes One Year After Shunt Surgery in iNPH Patients with Mild Gait Disturbance: The Role of instrumented Timed-Up Go test Score Ryo Oike
16:50 - 17:00	Exploring Voice Acoustic Features and Cognitive Metrics in Hakim's Disease: A Machine Learning Approach to Differentiating Hakim's Disease from Other Neurodegenerative Disorders Jiho Lee

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Parallel Hall: Small Hall 1

16:20 - 17:00	Session 30: Intracranial Pressure Chairs: Marianne Juhler, Ahmed Toma, Mitsuhiro Mase
	Abstracts for this session are on pages 173 - 176
16:20 - 16:30	ICP is more than a number in hydrocephalus Afrodit Lalou
16:30 - 16:40	Telemetric intracranial pressure readings: algorithms to guide the long-term management of patients with cerebrospinal fluid disorders Linda D'antona

Detailed Programme

16:40 - 16:50	Non-invasive intracranial pressure estimation using retinal photoplethysmography William Morgan
16:50 - 17:00	First in human trial of a new telemetry system for the remote chronic monitoring of intracranial pressure in hydrocephalus patients Simon Malpas

Parallel - Small Hall 2

16:20 - 17:00	Session 31: Neuroimaging Chairs: Toshiaki Taoka, Per Kristian Eide, Karin Kockum
	Abstracts for this session are on pages 177 - 180
16:20 - 16:30	Clinical improvement after shunt surgery in idiopathic normal pressure hydrocephalus patients can be quantified by diffusion tensor imaging Adela Bubenikova
16:30 - 16:40	Differentiating iNPH from other dementias: preliminary results on glymphatic function using the ALPS index Cristina Cuppone
16:40 - 16:50	Measurement and Visualization of Water Molecule Movements in Brain Parenchyma using MRI Q-space Imaging Satoshi Yatsushiro
16:50 - 17:00	Spectral diffusion analysis in patients with idiopathic normal pressure hydrocephalus Shota Ishida

Monday, 16 September 2024

Plenary Hall - 605

07:40 - 08:20	Industry Sponsored Breakfast Seminar
08:30 - 09:15	Session 32: Pediatric Hydrocephalus Chairs: Sylvia Shitsama, Kenichi Nishiyama, Sang Ho Kim
	Abstracts for this session are on pages 181 - 183
08:30 - 08:50	Keynote: Post traumatic hydrocephalus : ETV or VP shunt Deepak Gupta (V)
08:50 - 09:00	Analyzing Fluid Dynamic Patterns in Ventricular Catheters for Pediatric Hydrocephalus Christopher Roberts
09:00 - 09:10	Forefront treatment of post-hemorrhagic ventricular dilatation in extremely low birth weight infants to avoid permanent ventriculo peritoneal shunt and improve neurodevelopmental outcome Young Soo Park
09:10 - 09:15	Growth patterns and Neurological Outcomes of Neonates with Hydrocephalus at Kenyatta National Hospital, Nairobi, Kenya Melanie Abongo (V)

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Parallel - Small Hall 1

08:30 - 09:15	Session 33: Movement Disorder and Hydrocephalus Chairs: Sevil Yasar, Jan Malm, Taiji Tsunemi
	Abstracts for this session are on pages 184 - 187
08:30 - 08:40	Radiological markers in PsP vs NPH. Systematic review and meta-analysis Niccolò Neri
08:40 - 08:50	Comparison of Finger Tapping in Patients with Idiopathic Normal Pressure Hydrocephalus and Parkinson's Disease Yoko Shimizu
08:50 - 09:00	Progressive Parkinsonism due to aqueductal stenosis-induced hydrocephalus Kenichi Nishiyama
09:00 - 09:10	Idiopathic normal pressure hydrocephalus concomitant with progressive supranuclear palsy Tomoyo Shimada
09:10 - 09:15	Discussion

Parallel - Small Hall 2

08:30 - 09:15	Session 34: Experimental Hydrocephalus Chairs: Pat McAllister, Takuya Akai, Richard Edwards
	Abstracts for this session are on pages 188 - 190
08:30 - 08:40	The pathology underlying hydrocephalus due to ciliary dysfunction Kaito Kawamura
08:40 - 08:50	Cortical and Hippocampal β -amyloid deposition and CSF clearance through the choroid plexus in a model of chronic hydrocephalus Ryo Miyahara
08:50 - 09:00	New mechanism hypothesis of Maillard reaction-mediated cerebrospinal production at the choroid plexus Yasuhiko Hayashi
09:00 - 09:15	Discussion

Plenary Hall - 605

09:15 - 10:15	Session 35: Genetics Chairs: Kristopher T. Kahle, Kazunobu Sawamoto, Ville Leinonen
	Abstracts for this session are on pages 191 - 194
09:15 - 09:25	Keynote: Translational multi-omics for patients with hydrocephalus Kristopher T. Kahle
09:25 - 09:45	Keynote: Genetics of NPH in relation to neurodegenerative diseases Ville Leinonen
09:45 - 09:55	Risk variants associated with normal pressure hydrocephalus in a genome-wide association study Joel Räsänen
09:55 - 10:05	Deciphering congenital hydrocephalus genes using XENOPUS Engin Deniz
10:05 - 10:15	Two families presenting normal pressure hydrocephalus had the variant of KIF18B. Case reports and a review of Kinesin association with hydrocephalus Chifumi Iseki

Parallel Hall 1

09:15 - 10:15	Session 36: Movement Disorder and Hydrocephalus Chairs: Alfonso Fasano, Joachim Krauss, Atsushi Takeda
	Abstracts for this session are on pages 195 - 200
09:15 - 09:25	A Patient with Clinical Presentation of Richardson's Syndrome but Pathologically Confirmed Secondary Hydrocephalus without Neurodegenerative Disease Ikuko Aiba
09:25 - 09:35	Cerebral perfusion SPECT may help predict shunting effectiveness in patients with PSP and Hakim's disease Naoki Yamahara

09:35 - 09:45	Cognitive Impairment in iNPH and PD: A Comparative Analysis of Linguistic, Acoustic, and Gaze Features Nayeon Kim
09:45 - 09:55	Cardiac 123I-MIBG scintigraphy for Parkinson's disease and idiopathic normal pressure hydrocephalus Toru Baba
09:55 - 10:05	Shunt study for the patients with Hakim's disease comorbid with PD/PDD Taiji Tsunemi
10:05 - 10:15	Freezing of gait in idiopathic normal pressure hydrocephalus Jan Malm

Parallel - Small Hall 2

09:15 - 10:15	Session 37: Adult Hydrocephalus (L-P shunt) Chairs: Giorgio Palandri, Naoyuki Samejima, Teruo Kimura
	Abstracts for this session are on pages 201 - 206
09:15 - 09:25	Expert opinions for standardization of post-shunt management of patients with idiopathic normal pressure hydrocephalus Madoka Nakajima
09:25 - 09:35	Comparison of lumboperitoneal shunt under local anesthesia and ventriculoperitoneal shunt under general anesthesia for hydrocephalus related to leptomeningeal metastasis Ki-Su Park
09:35 - 09:45	Comparing the efficacy of LP and VP shunts in iNPH: a systematic review and meta-analysis Arya Abaee
09:45 - 09:55	Lumboperitoneal shunt surgery via lateral abdominal laparotomy Yukihiro Goto
09:55 - 10:05	A new Lumbo-Peritoneal Shunt System for the treatment of Communicating Hydrocephalus: First Experiences and Clinical Perspectives Vincent Prinz
10:05 - 10:15	LP shunt in patients with iNPH : Surgical technique Naoyuki Samejima

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Exhibition Area

10:15 - 11:00	Coffee Break & Exhibition
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Plenary Hall - 605

11:00 - 12:30	Session 38: Joint session of the International Parkinson and Movement Disorder Society and the Hydrocephalus Society Disentangled relationship between iNPH and Parkinsonisms Chairs: Joachim Krauss, Mats Tullberg, Sevil Yasar, Alfonso Fasano
11:00 - 11:15	Keynote: Movement disorders in iNPH Joachim Krauss

Detailed Programme

11:15 - 11:30	Keynote: Parkinsonian disorders and iNPH Mats Tullberg
11:30 - 11:45	Keynote: Exposome and iNPH – the role of acquired factors in iNPH and Movement Disorders Sevil Yasar
11:45 - 12:00	Keynote: Neurodegeneration, glymphatics, cilia dysfunction in iNPH and Movement Disorders Alfonso Fasano
12:00 - 12:30	Round table discussion: Current state and future needs in research

Parallel Hall 1

11:00 - 12:30	Session 39: Neuroimaging Chairs: Kazunari Ishii, Nicole Keong, Olivier Baledent
	Abstracts for this session are on pages 207 - 215
11:00 - 11:10	Hippocampal shape abnormalities in idiopathic normal-pressure hydrocephalus Kyunghun Kang
11:10 - 11:20	Associations Between DESH Pattern on MRI and Enlarged Perivascular Space and WMH Load in the Mayo Clinic Study of Aging (MCSA) Jeff Gunter
11:20 - 11:30	Different dynamic craniospinal CSF and spinal cord patterns in spontaneous intracranial hypotension (SIH), and idiopathic intracranial hypertension (IIH) resolved by phase-contrast MRI Katharina Wolf
11:30 - 11:40	High Diagnostic Performance of StateViewer AI for Normal Pressure Hydrocephalus Using Brain FDG-PET Imaging David Jones
11:40 - 11:50	The Super Learner Algorithm: Enhancing Idiopathic Normal Pressure Hydrocephalus Diagnosis with AI-Enhanced Cortical Analysis Daniele Piccolo
11:50 - 12:00	Enhancing Differentiation Accuracy of Idiopathic Normal Pressure Hydrocephalus by Simultaneously Assessing GM and WM Using a Multi-input CNN in MRI Fubuki Sawa
12:00 - 12:10	Ventricular volumetry in relation to clinical outcome in iNPH at 3 and 12 months after surgery Rafael Holmgren
12:10 - 12:20	Cerebral blood and CSF volume change dynamics studied by PC-MRI in hydrocephalus Kimi Owashi
12:20 - 12:30	The Preliminary study of vertical shift index of corpus callosum: A novel diagnostic tool for normal pressure hydrocephalus Yoshinaga Kajimoto

Parallel Hall 2

11:00 - 12:30	Session 40: Technical Advances in Treatment and Diagnosis Chairs: Carolyn Harris, Ahmed Toma, Kenichi Nishiyama
	Abstracts for this session are on pages 216 - 223
11:00 - 11:10	Quantification of Regional Neural Tissue Strain in Type I Chiari Malformation Pre- and Post-Operatively Mark Luciano
11:10 - 11:20	Efficacy of endoscopic cerebrospinal fluid diversion training using translucent ventricle model Tomoru Miwa
11:20 - 11:30	CSF Proteomics in Spontaneous Intracranial Hypotension Amir El Rahal
11:30 - 11:40	Normal Cerebrospinal Fluid Production Rate in Normal Pressure Hydrocephalus Patients Post Lumbar Infusion Test Kanza Tariq
11:40 - 11:50	Use of the lumbar infusion test in paediatric populations with idiopathic intracranial hypertension: a systematic review of the literature and institutional experience Ondrej Bradac
11:50 - 12:00	"Standard" vs Miethke Shunt Valves for Paediatric Hydrocephalus: The Leeds Experience Hamza Rehman
12:00 - 12:10	Is The Study Of Craniospinal Csf Dynamics Predictive Of Headache Improvement After Chiari Syndrome Surgery? Cyrille Capel
12:10 - 12:20	Step by Step: A detailed gait analysis in patients with idiopathic normal pressure hydrocephalus using 3D motion capture Richard Mills
12:20 - 12:30	Discussion

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Plenary Hall - 605

12:30 - 13:40	Industry Sponsored Lunch Seminar
13:40 - 15:20	Session 41: Special Session: Hydrocephalus Society - EANS Joint Session: Controversies in Spontaneous intracranial hypotension Chairs: Katharina Wolf, Mats Tullberg, Eric Schmidt
13:40 - 13:55	Keynote: Clinic and pitfalls Henrik Schytz
13:55 - 14:10	Keynote: Imaging workup and endovascular treatment Tomas Dobrocky
14:10 - 14:25	Keynote: More imaging tips and percutaneous treatment Lalani Carlton Jones

Detailed Programme

14:25 - 14:40	Keynote: Microsurgical anatomy and surgical treatment of spinal leaks Juergen Beck
14:40 - 14:55	Keynote: Long term sequelae of spinal leaks and surgical treatment Wouter Schievink
14:55 - 15:10	Keynote: Establishment of guidelines and standards Manjit Matharu
15:10 - 15:20	Round table discussion: Current state and future needs in research

Parallel - Small Hall 1

13:40 - 15:20	Session 42: Adult Hydrocephalus (Epidemiology) Chairs: Sevil Yasar, Fernando Gomes Pinto, Chifumi Iseki
	Abstracts for this session are on pages 224 - 232
13:40 - 13:50	Analyzing the Prevalence of Hakim's Triad in the Presentation of Normal Pressure Hydrocephalus Raphael Bertani
13:50 - 14:00	Coverage and data validity of the Swedish Hydrocephalus Quality Registry Sara Qvarlander
14:00 - 14:10	Prevalence of possible iNPH in Korean population, investigated in the primary medical care/health care system Myong Hun Hahm
14:10 - 14:20	Cerebrospinal Fluid Proteomic Profile of Frailty Eric Schmidt
14:20 - 14:30	Is it Possible to Accurately Distinguish Between LOVA and iNPH? Exploring the Challenge of Differential Diagnosis Alessandro Pirina
14:30 - 14:40	Screening for idiopathic normal pressure hydrocephalus in patients with minor ischemic stroke Takashi Iimori
14:40 - 14:50	The evolution of a multidisciplinary Normal Pressure Hydrocephalus service: continuous quality improvement Samuel Jeffery
14:50 - 15:00	Screening iNPH Patients Using Fundoscopy: A Novel Method Mathias Just Nortvig
15:00 - 15:10	Normal Pressure Hydrocephalus: A Syndrome, Not a Disease Yoav Piura
15:10 - 15:20	Discussion

Parallel - Small Hall 2

13:40 - 15:10	Session 43: Oral Flash Presentations of e-Posters Chairs: Sylvia Shitsama, Daisuke Kita
	Abstracts for this session are on pages 304-317
13:40 - 13:45	35-Year Overview of the Registry for Patients with NTD Pathology in Estonia Tiit Nikopensius
13:45 - 13:50	Ancient schwannoma masking diagnosis of Secondary Normal Pressure Hydrocephalus in a 65-year-old male presenting with gait instability: A Systematic Review and Illustrative Case Yvanne Joshua Rabe
13:50 - 13:55	Factors that improve ETSS reliability in pediatric hydrocephalus cases Michihiro Kurimoto
13:55 - 14:00	What is the Optimal Position for a Ventricular Catheter? Effect of proximal catheter position on ventriculoatrial or ventriculoperitoneal shunt survival Maria Paula Vargas
14:00 - 14:05	Hydrocephalus with chromosome 9 tetrasomy and persistent left superior vena cava treated by Ventriculo-femoro-atrial shunt: A case report Rin Shimozato
14:05 - 14:10	Variation in Cerebrospinal Fluid Production Rate During Asleep and Awake States Kanza Tariq
14:10 - 14:15	Preventing Shunt Peritoneal Catheter Displacement by Eliminating Catheter Exposure to Dead Space Yasuaki Inoue
14:15 - 14:20	Differential diagnosis of posttraumatic ventriculomegaly in unresponsive wakefulness and minimal consciousness state patients: hydrocephalus or atrophy? Yaroslav Latyshev
14:20 - 14:25	Trans-burr hole ultrasound to confirm Reflow System Mini function and proximal catheter patency in a hydrocephalus patient with a ventricular shunt Ryan Lee
14:25 - 14:30	Extradural Arachnoid Cyst: An Extremely Rare Complication Associated with Lumboperitoneal Shunt Daisuke Kita
14:30 - 14:35	Magnetic Stability Analysis of the SPHERA PRO Programmable Valve Fernando Pinto
14:35 - 14:40	Utility of the Dot Counting and Rey-15 Item Recognition performance validity tests in cognitive assessment of patients with suspected idiopathic normal pressure hydrocephalus Gemma Johns
14:40 - 14:45	Evaluation of imaging predictors and their relationship with postoperative outcome in patients with normal pressure hydrocephalus undergoing ventricular shunt Fernando Hakim

Detailed Programme

14:45 - 14:50	Assessment of Non-invasive ICP Dynamics for Shunted Normal Pressure Hydrocephalus Patients Raphael Bertani
14:50 - 15:00	Discussion

Plenary Hall - 605

15:30 - 16:20	Session 44: Closing of the 16th Hydrocephalus Annual Meeting Chairs: Mitsuhiro Mase, Mats Tullberg, Shigeki Yamada
15:30 - 15:40	Highlights from the Hydrocephalus 2024 Meeting Michael Williams
15:40 - 15:50	Young Investigators Awards: Presentation of Results Carolyn Harris
15:50 -16:00	Closing Address by the Hydrocephalus 2024 President Mitsuhiro Mase
16:00 - 16:10	Closing Address by the Hydrocephalus Society Mats Tullberg
16:10 - 16:20	Hydrocephalus 2025 World Congress Toulouse Welcome Eric Schmidt